

**PAT-NO:** JP403229838A  
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**TITLE:** STEEL EXCELLENT IN HIGH  
TEMPERATURE CORROSION  
RESISTANCE IN THE PRESENCE  
OF CHLORIDE  
**PUBN-DATE:** October 11, 1991

**INVENTOR-INFORMATION:**

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**ABSTRACT:**

PURPOSE: To provide a steel with excellent corrosion resistance even in a high temp. environment where chlorides are present by

specifying the content of C, Si, Mn, Cr, Ni, Mo, etc., in a steel.

CONSTITUTION: The compsn. of an austenitic steel is formed of, by weight,  $\leq 0.05\%$  C,  $\leq 2\%$  Si,  $\leq 2\%$  Mn, 15 to 30% Cr,  $>30$  to 60% Ni, 0.5 to 4% Mo and the balance Fe with inevitable impurities. If required, 0.001 to 0.05% of one or more kinds of Mg and B and one or more kinds among  $\leq 0.5\%$  Ti,  $\leq 0.5\%$  Al,  $\leq 1\%$  Zr,  $\leq 0.5\%$  Nb and  $\leq 0.15\%$  N are furthermore incorporated therein. This steel shows excellent corrosion resistance in a high temp. dry (wet) corrosive environment where chlorides are present and excellent in high temp. strength, long time stability, weldability, bendability, etc. Thus, the steel is suitable for a sheath heater for electric apparatus for cooking or the like.

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